

TCD 12.0/16.0

For mobile machinery

240 - 520 kW | 322 - 697 hp at 1800 - 2100 min⁻¹ | rpm
EU Stage IIIB & IV / US EPA Tier 4 interim & Tier 4

- Watercooled 6 or 8-cylinder V engines (90°) with turbocharging and charge air cooling. As of EU Stage IV / US EPA Tier 4 with cooled external exhaust gas recirculation.
- Engine and exhaust aftertreatment (EAT) are adapted to an optimum efficiency of the total system and therefore ensure minimum fuel and total running costs.
- Consistent installation and connection dimensions of the engine facilitate the changeover of existing installations to the next stage of the emission legislation.
- The extremely compact engine design and customer friendly accessories reduce the installation costs and increase the number of applications.



- The powerful Common Rail injection system and the electronic engine control (EMR 4) with intelligent link to the drive management ensure optimum engine performance at low fuel consumption.

- The engines have a modular exhaust aftertreatment system (EAT) with components from the DVERT® kit and optional configuration variants. This means a high flexibility in machine integration for the OEM.
- 100% power take-off at flywheel and front end and additionally up to three PTO drives with a total torque of up to 520 Nm.
- Best cold starting performance even under extreme conditions.
- The engines meet the requirements of the EU Stage IIIB and US EPA Tier 4 interim with SCR. Additionally for EU Stage IV / US EPA Tier 4 with cooled external EGR and DVERT® particulate filter. A variant without EAT is available as an option for less regulated markets.

Technical data

Engine type		TCD 12.0 V6	TCD 16.0 V8
No. of cylinders		6	8
Bore/stroke	mm in	132/145 5.2/5.7	132/145 5.2/5.7
Displacement	l cu in	11.9 726	15.9 957
Nominal speeds	min ⁻¹ rpm	2100	2100

Power output ¹⁾		TCD 12.0 V6	TCD 16.0 V8
Power output as per ISO 14396	kW hp	390 524	520 697
at speed	min ⁻¹ rpm	2100	2100
Max. torque	Nm lb/ft	2130 1571	2890 2132
at speed	min ⁻¹ rpm	1400	1400
Minimum idling speed	min ⁻¹ rpm	600	600
Specific fuel consumption ²⁾	g/kWh lb/hph	193 0.317	194 0.319
Weight as per DIN 70020 Part 7A ³⁾	kg lb	995 2194	1260 2778

1) Power data without deduction of fan power.

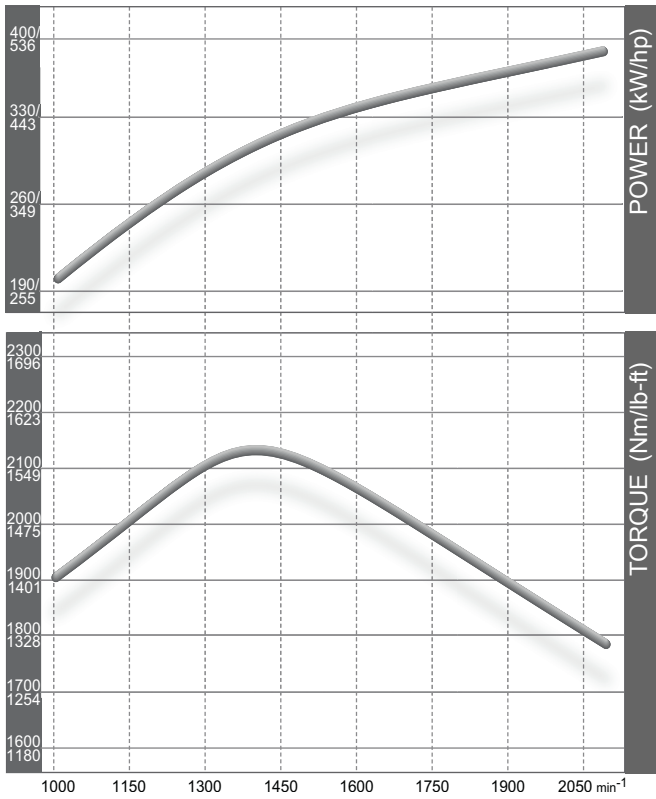
2) Best full load consumption refers to diesel with a density of 0.835 kg/dm³ at 15°C | 6.96 lb/US gallon at 60°F.

3) Without starter/alternator, cooler and fluids but with flywheel and flywheel housing.

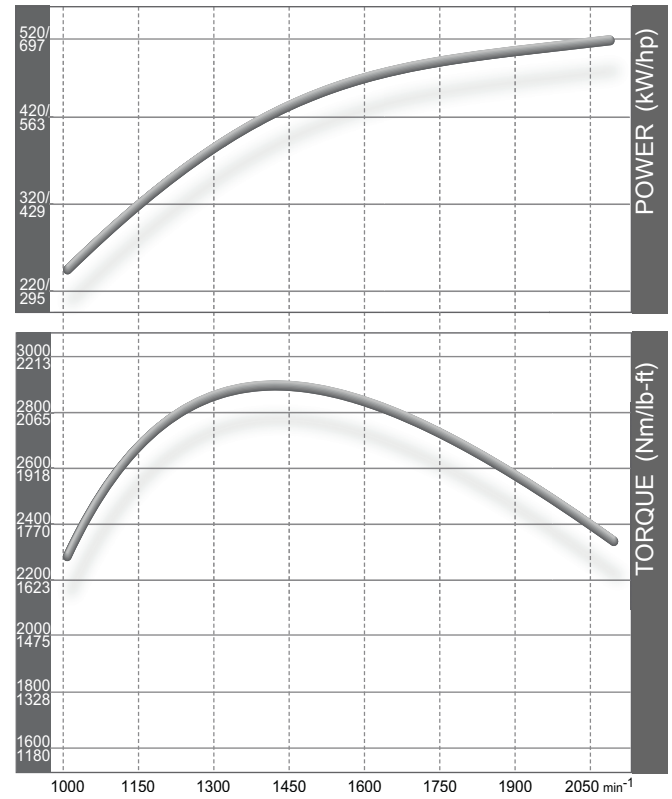
The data on this data sheet are for information purposes only and are not binding values. The data in the quotation is definitive.

Torque curve

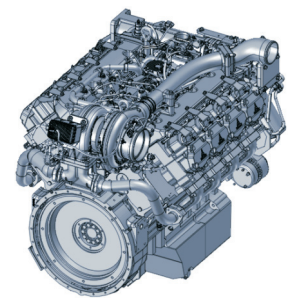
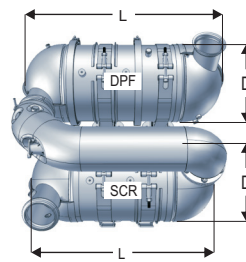
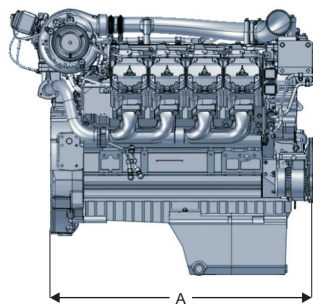
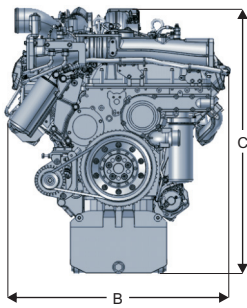
TCD 12.0 V6 - 390 kW|524 hp



TCD 16.0 V8 - 520 kW|697 hp



Dimensions



	A			B			C			DPF		SCR		DVERT® EAT						
	mm		in	mm		in	mm		in	D	L	D	L	DPF	SCR					
TCD 12.0 V6 T4i	980		38.6	945		37.2	1170		46.1	-	-	365		14.4	750		29.5	■	■	
TCD 12.0 V6 T4	980		38.6	945		37.2	1170		46.1	365		14.4	840		33.1	860		33.9	■	■
TCD 16.0 V8 T4i	1150		45.3	945		37.2	1170		46.1	-	-	365		14.4	852		33.5	■	■	
TCD 16.0 V8 T4	1150		45.3	945		37.2	1170		46.1	365		14.4	940		37.0	1015		40.0	■	■

■ Standard

Note: The engine dimensions and weights vary depending on the scope of delivery.

For more information please contact the DEUTZ AG Köln or the responsible sales partner.

